

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

I. (Withdrawn) A solvent composition for selective removal of COS from a gas stream containing same, said composition comprising

- a) at least one polyalkylene glycol alkyl ether of the formula



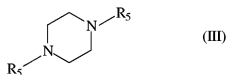
wherein  $R_1$  is an alkyl group having from 1 to 6 carbon atoms;  $R_2$  is hydrogen or an alkyl group having from 1 to 4 carbon atoms; Alk is an alkylene group, branched or unbranched, having from 2 to 4 carbon atoms, and  $n$  is from 1 to 10; and

- b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein  $R_3$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the  $R_4OH$  group;  $R_4$  is a branched or unbranched alkylene group having from 1 to 6 carbon atoms;  $R_5$ , independently in each occurrence, is hydrogen or an hydroxyalkyl group having from 1 to 4 carbon atoms; and  $R_6$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

2. (Withdrawn) The solvent composition according to Claim 1 wherein the polyalkylene glycol alkyl ether of the formula I is a mixture of polyalkylene glycol alkyl ethers comprising dimethyl ethers of polyethylene glycols of formula  $\text{CH}_3\text{O}(\text{C}_2\text{H}_4\text{O})_n\text{CH}_3$  wherein n is from 1 to 10.
3. (Withdrawn) The solvent composition according to Claim 2 wherein the mixture of polyalkylene glycol alkyl ethers comprises from about 0 to about 0.5 wt% of diethylene glycol dimethyl ether, from about 5 to about 7 wt% of triethylene glycol dimethyl ether, from about 16 to about 18 wt% tetraethylene glycol dimethyl ether, from about 23 to about 25 wt% of pentethylene glycol dimethyl ether, from about 22 to about 24 wt% of hexaethylene glycol dimethyl ether, from about 15 to about 17 wt% of heptaethylene glycol dimethyl ether, from about 8 to about 10 wt% of octaethylene glycol dimethyl ether, from about 3 to about 5 wt% of nonaethylene glycol dimethyl ether, and from about 1 to about 2 wt% of decaethylene glycol dimethyl ether.
4. (Withdrawn) The solvent composition of Claim 1 wherein the component b) is an alkanolamine of formula II in which substituent  $\text{R}_3$  is hydrogen.
5. (Withdrawn) The solvent composition of Claim 1 wherein the component b) is monoethanolamine.
6. (Withdrawn) The solvent composition of Claim 1 wherein the component b) is an alkanolamine of formula II in which substituent  $\text{R}_3$  is an alkyl group having from 1 to 6 carbon atoms or the  $\text{R}_4\text{OH}$  group.
7. (Withdrawn) The solvent composition according to Claim 6 wherein the alkanolamine of formula II is selected from the group consisting of diethanolamine, methylethanolamine and diisopropanolamine.
8. (Withdrawn) The solvent composition of Claim 1 wherein the component b) is piperazine.
9. (Withdrawn) The solvent composition of Claim 1 wherein the component b) is hydroxyethylpiperazine.
10. (Withdrawn) A process for selective removal of COS from a gas stream containing COS and  $\text{CO}_2$ , said process comprising contacting the gas stream with a solvent composition comprising
- a) at least one polyalkylene glycol alkyl ether of the formula



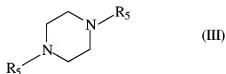
wherein  $R_1$  is an alkyl group having from 1 to 6 carbon atoms;  $R_2$  is hydrogen or an alkyl group having from 1 to 4 carbon atoms; Alk is an alkylene group, branched or unbranched, having from 2 to 4 carbon atoms; and n is from 1 to 10; and

- b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein  $R_3$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the  $R_4OH$  group;  $R_4$  is a branched or unbranched alkylene group having from 1 to 6 carbon atoms;  $R_5$ , independently in each occurrence, is hydrogen or an hydroxyalkyl group having from 1 to 4 carbon atoms; and  $R_6$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

11 – 18. (Canceled)

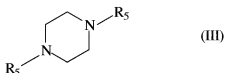
19. (Original) A solvent composition for selective removal of COS from a gas stream containing same, said composition comprising

- a) 1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone; and
- b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein  $R_3$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the  $R_4OH$  group;  $R_4$  is a branched or unbranched alkylene group having from 1 to 6 carbon atoms;  $R_5$ , independently in each occurrence, is hydrogen or an hydroxyalkyl group having from 1 to 4 carbon atoms; and  $R_6$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

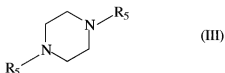
20. (Original) A process for selective removal of COS from a gas stream containing COS and  $CO_2$ , said process comprising contacting the gas stream with a solvent composition comprising

- a) 1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone; and
- b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein  $R_3$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the  $R_4OH$  group;  $R_4$  is a branched or unbranched alkylene group having from 1 to 6 carbon atoms;  $R_5$ , independently in each occurrence, is hydrogen or an hydroxyalkyl group having from

1 to 4 carbon atoms; and  $R_6$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

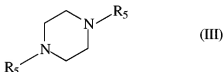
21. (Withdrawn) A solvent composition for removal of COS from a gas stream containing same, said composition comprising

- a) a mixture of N-formylmorpholine and N-acetylmorpholine; and
- b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein  $R_3$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the  $R_4OH$  group;  $R_4$  is a branched or unbranched alkylene group having from 1 to 6 carbon atoms;  $R_5$ , independently in each occurrence, is hydrogen or an hydroxyalkyl group having from 1 to 4 carbon atoms; and  $R_6$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

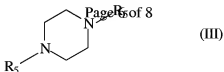
22. (Withdrawn) A process for selective removal of COS from a gas stream containing same, said process comprising treating the gas stream with a solvent composition comprising

- a) a mixture of N-formylmorpholine and N-acetylmorpholine; and
- b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein  $R_3$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the  $R_4OH$  group;  $R_4$  is a branched or unbranched alkylene group having from 1 to 6 carbon atoms;  $R_5$ , independently in each occurrence, is hydrogen or an hydroxyalkyl group having from 1 to 4 carbon atoms; and  $R_6$  is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

23. (New) The solvent composition of Claim 19 wherein component b) is an alkanolamine of formula II in which substituent  $R_3$  is hydrogen.
24. (New) The solvent composition of Claim 19 wherein component b) is at least one of monoethanolamine, diethanolamine, methylethanolamine, diisopropanolamine, and 2-(2-aminoethoxy) ethanol.
25. (New) The solvent composition of Claim 24 wherein component b) is monoethanolamine.
26. (New) The process of Claim 20 wherein component b) is an alkanolamine of formula II in which substituent  $R_3$  is hydrogen.
27. (New) The process of Claim 20 wherein component b) is at least one of monoethanolamine, diethanolamine, methylethanolamine, diisopropanolamine, and 2-(2-aminoethoxy) ethanol.
28. (New) The process of Claim 27 wherein component b) is monoethanolamine.